

CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A support arm comprising:
 - 5 a base having a mounting means for mounting said base to a mounting structure;
 - a rigid arm segment;
 - a flexible arm segment, said rigid arm segment and said flexible arm segment being connected to one another, said interconnected segments having a first end and a second end, said first end being connected to said base; and
 - 10 a component mount connected to said second end of said interconnected segments.
2. The support arm of claim 1 wherein said flexible arm segment includes a plurality of discrete flexible tubes extending substantially parallel to one another.
3. The support arm of claim 2 wherein each of said plurality of flexible tubes includes a first end and a second end, at least one of said flexible tubes including a fixed first end and a fixed
15 second end, at least one of said flexible tubes including a free floating first end.
4. The support arm of claim 3 further comprising a joint interconnecting said rigid arm segment and said flexible arm segment.
5. The support arm of claim 4 wherein said joint includes a locking mechanism for selectively locking said joint in a desired position.
- 20 6. The support arm of claim 3 further comprising a joint disposed between said interconnected segments and said component mount.

7. The support arm of claim 1 wherein said flexible arm segment includes at least one flexible tube, said flexible tube including a core, a flexible casing surrounding said core in a spaced apart relationship to define a void, and a filler material substantially filling said void.
8. The support arm of claim 7 wherein said core is a solid metal round stock.
- 5 9. The support arm of claim 8 wherein said filling material is a silicone caulk.
10. The support arm of claim 9 wherein said casing is a flexible coiled steel tube.
11. The support arm of claim 5 wherein said rigid arm segment is secured to said base and said flexible arm segment is secured to said component mount.
12. The support arm of claim 1 further comprising a second rigid arm segment, a second
10 flexible arm segment and a second component mount; and
wherein said second rigid arm segment, said second flexible arm segment and said second component mount are connected to said base.
13. A support arm comprising:
a mounting base;
15 a first arm segment mounted to said base;
a second arm segment mounted to said first arm segment opposite said base; and
a component mount connected to said second arm segment,
wherein at least one of said first arm segment and said second arm segment is a flexible
arm segment.
- 20 14. The support arm of claim 13 wherein said flexible arm segment includes a plurality of discrete flexible tubes extending substantially parallel to one another.
15. The support arm of claim 13 wherein each of said plurality of flexible tubes includes a first end and a second end, at least one of said flexible tubes is a fixed tube including a fixed first

end and a fixed second end, at least one of said flexible tubes is a floating tube having at least one free floating end.

16. The support arm of claim 15 wherein at least one of said plurality of flexible tubes includes a core, a casing surrounding said core in a spaced relationship to define a void between
5 said core and said casing, and a filling material substantially filling said void.

17. The support arm of claim 14 wherein said first arm segment is connected to said second arm segment by a first joint, said first joint permit pivotal movement between said first arm segment and said second arm segment in at least one direction.

18. The support arm of claim 17 wherein said second arm segment is connected to said
10 component mount by a second joint, said second joint permit pivotal movement between said first arm segment and said second arm segment in at least one direction.

19. The support arm of claim 18 wherein said flexible arm segment is further defined as said second arm segment.

20. The support arm of claim 19 wherein said fixed tube and said floating tube are vertically
15 offset from one another.

21. The support arm of claim 13 further comprising a third arm segment, a fourth arm segment and a second component mount; and

wherein said second third arm segment, said fourth arm segment and said second component mount are connected to said base and to one another to provide a support for a
20 second component.

22. A support arm comprising:
a mounting base;

a flexible arm segment mounted to said base, said flexible arm segment including a plurality of discrete flexible tubes extending substantially parallel to one another; and

a component mount connected to said arm segment.

23. The support arm of claim 22 wherein each of said plurality of flexible tubes includes a first end and a second end, at least one of said flexible tubes is a fixed tube including a fixed first end and a fixed second end, at least one of said flexible tubes is a floating tube having at least one free floating end.

24. The support arm of claim 23 wherein at least one of said plurality of flexible tubes includes a core, a casing surrounding said core in a spaced relationship to define a void between said core and said casing, and a filling material substantially filling said void.

25. A support arm comprising:

a mounting base;

a flexible arm segment mounted to said base, said flexible arm segment including a core, a casing surrounding said core in a spaced relationship to define a void between said core and said casing, and a filling material substantially filling said void; and

a component mount connected to said arm segment.

26. The support arm of claim 25 wherein said flexible arm segment includes a plurality of discrete flexible tubes extending substantially parallel to one another.

27. The support arm of claim 26 wherein each of said plurality of flexible tubes includes a first end and a second end, at least one of said flexible tubes is a fixed tube including a fixed first end and a fixed second end, at least one of said flexible tubes is a floating tube having at least one free floating end.